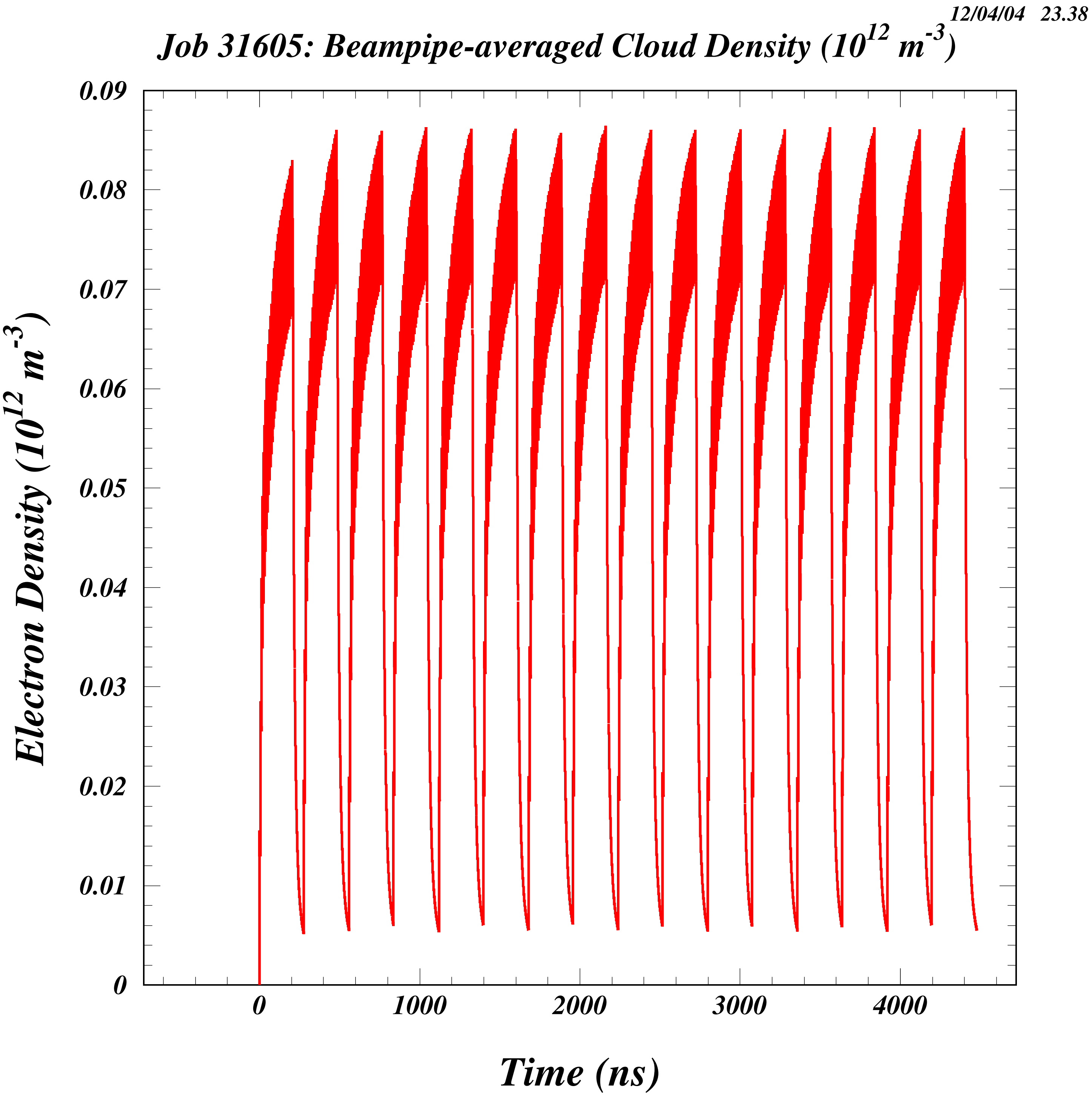
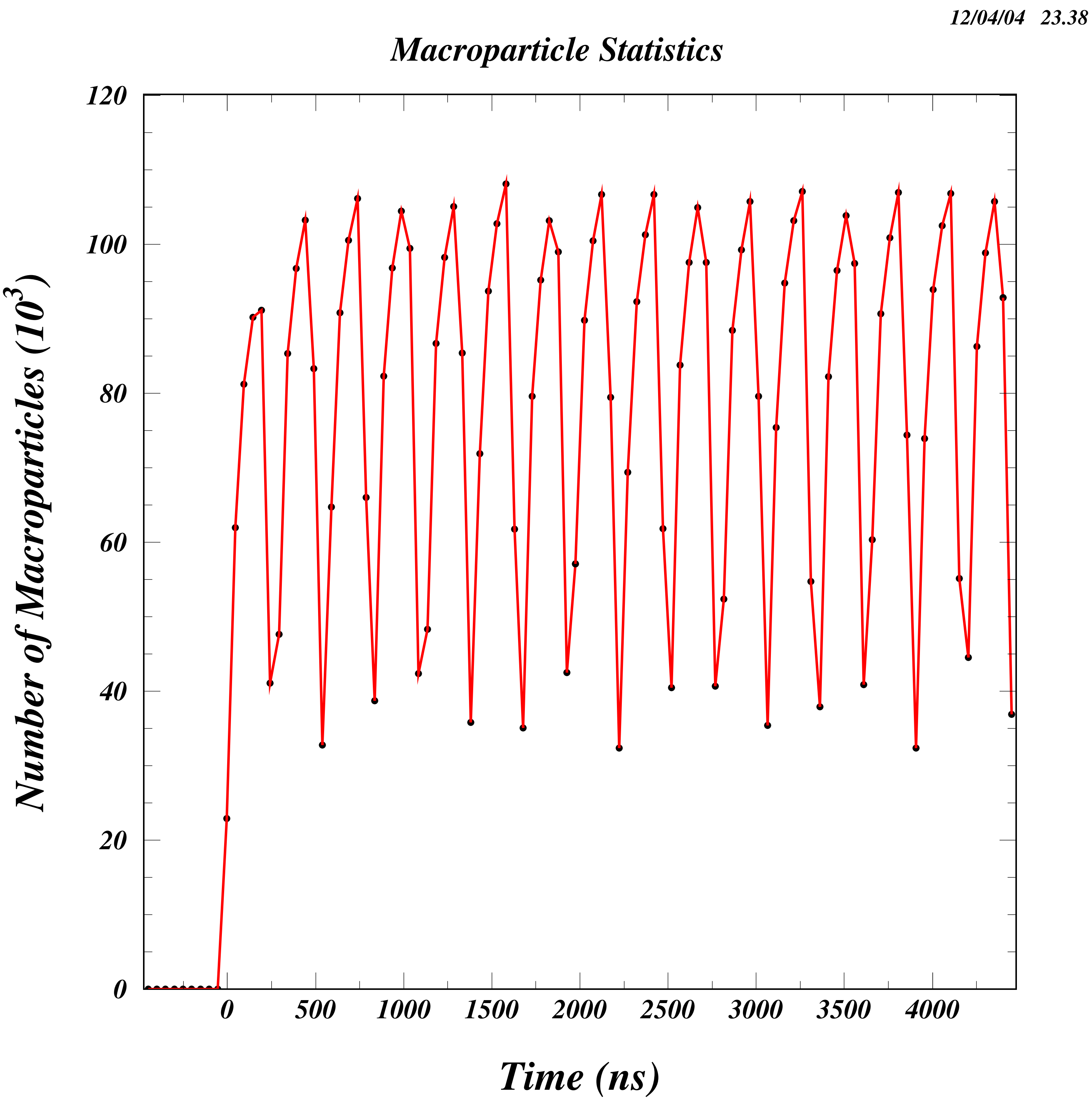
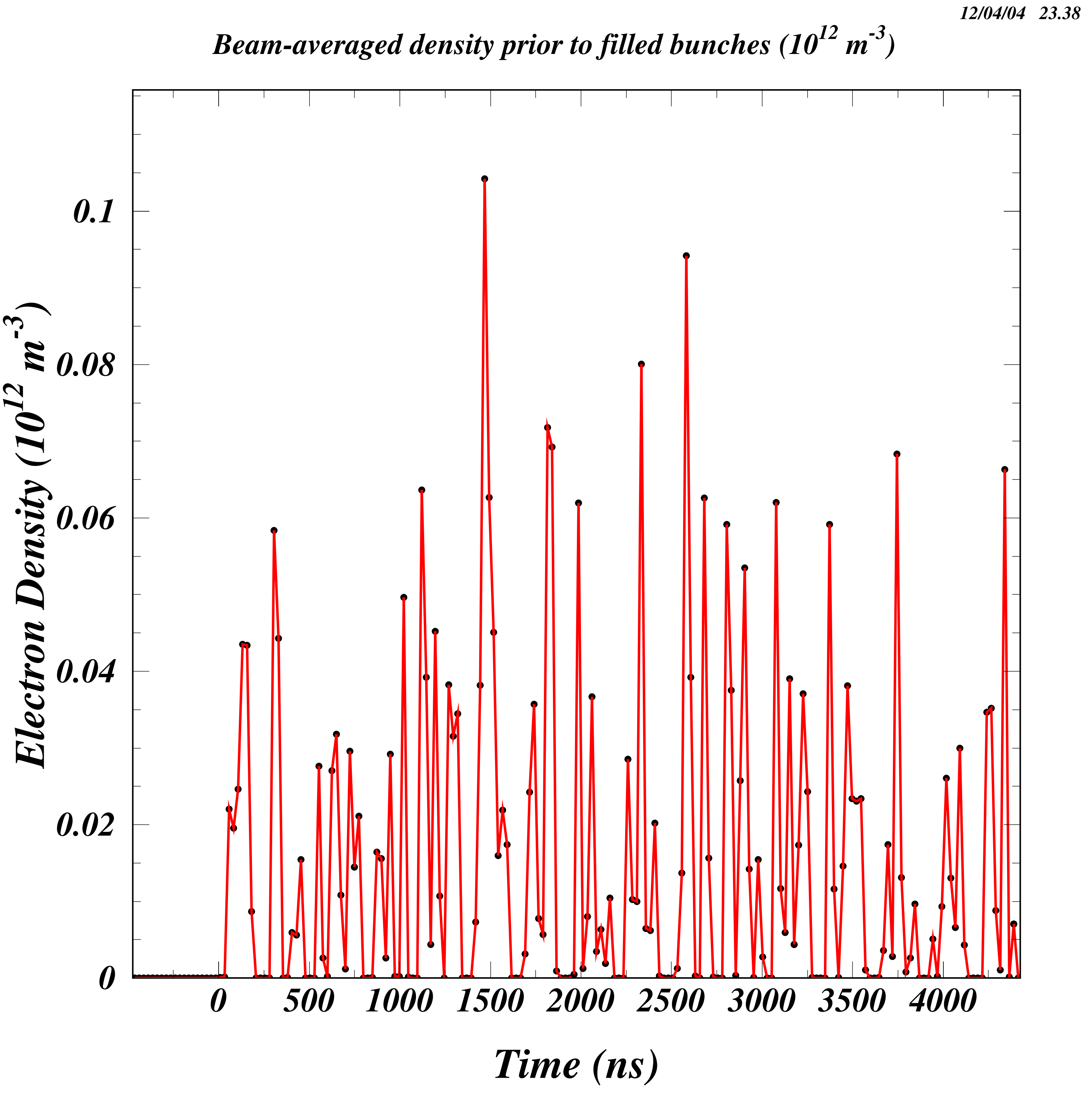
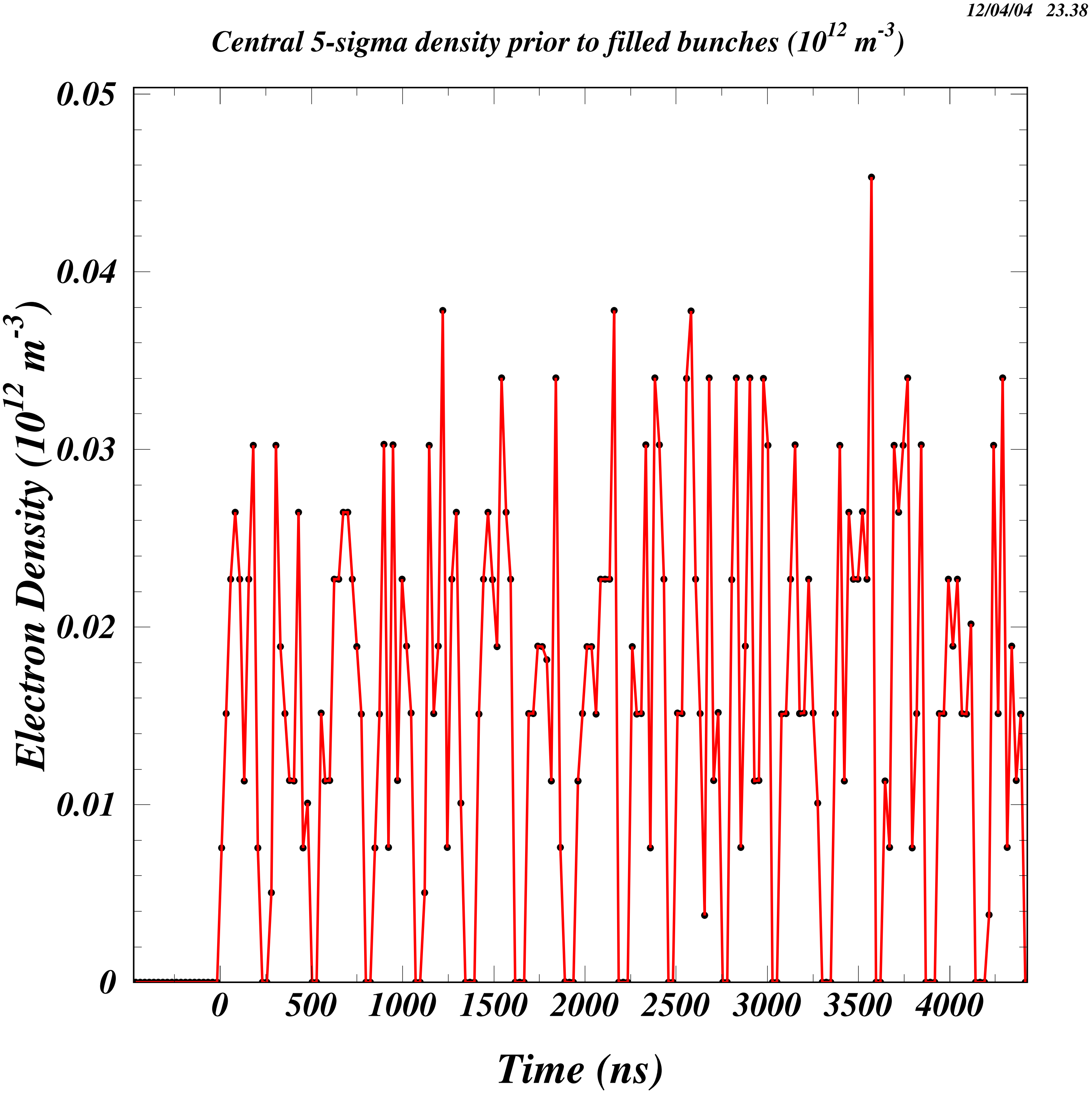
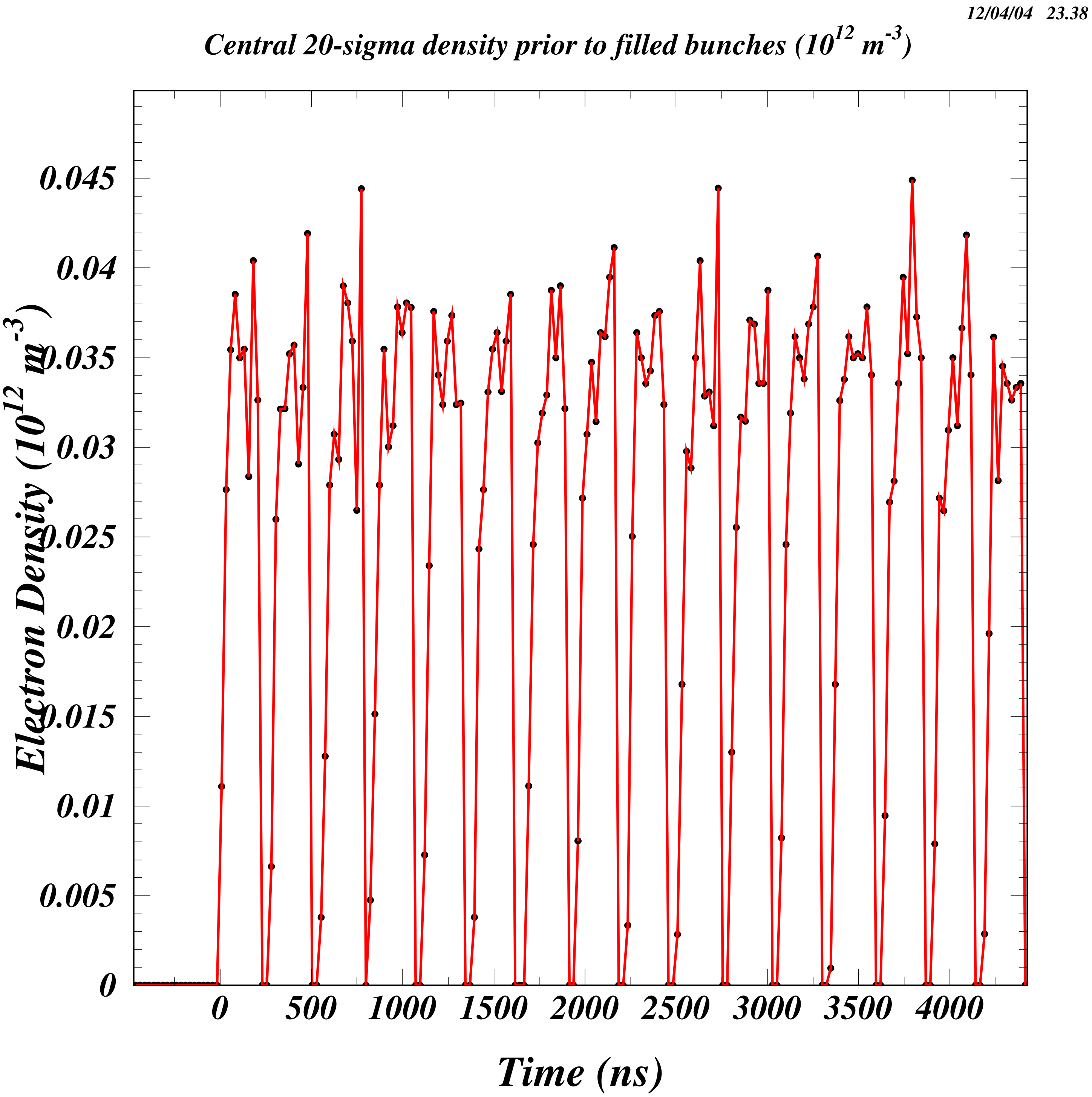
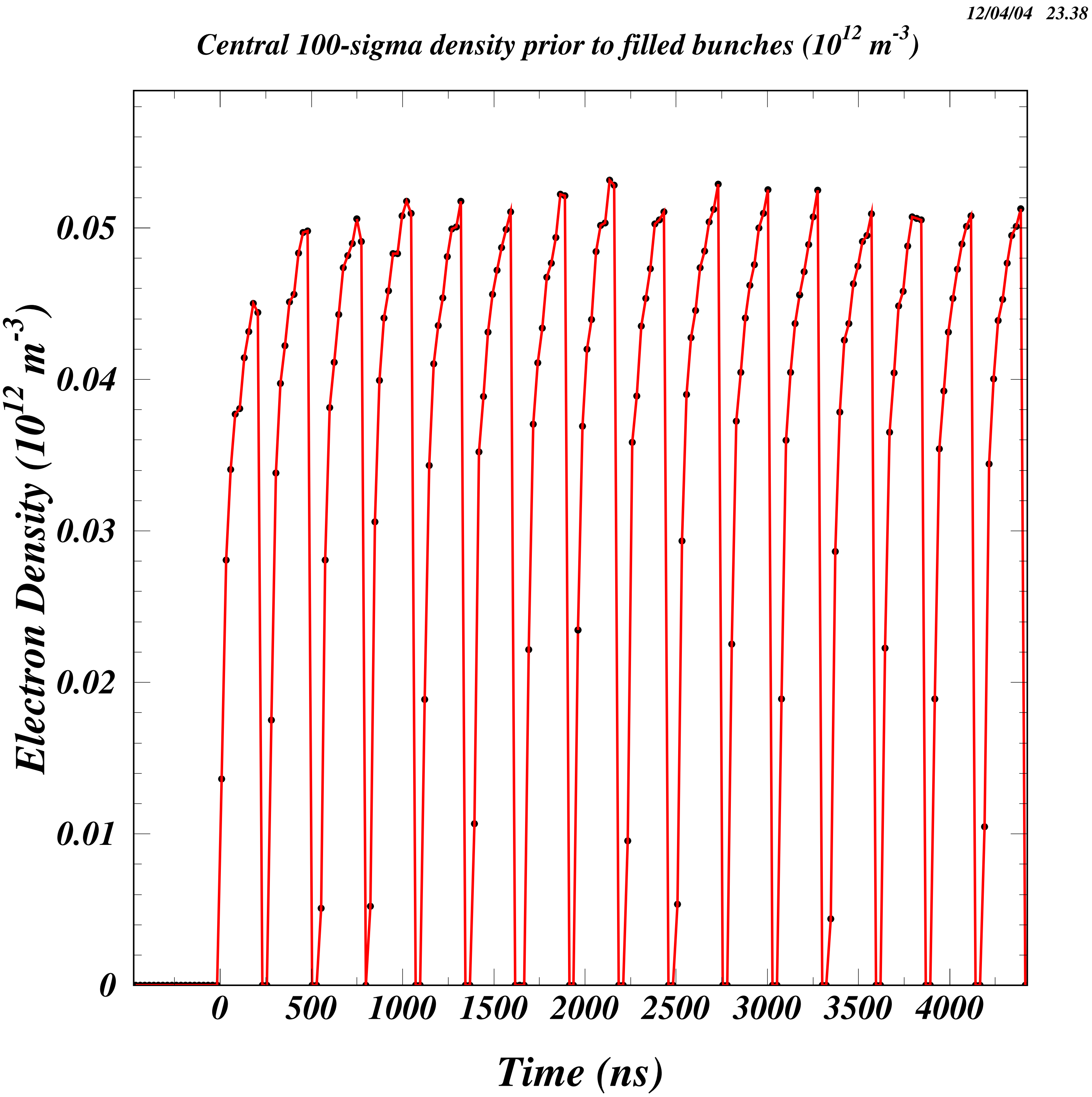

12/04/04 23.38
Job 31605: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
1000
2000
3000
4000
Time (ns)


12/04/04 23.38
Macroparticle Statistics
Number of Macroparticles (10^3)
120
100
80
60
40
20
0
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

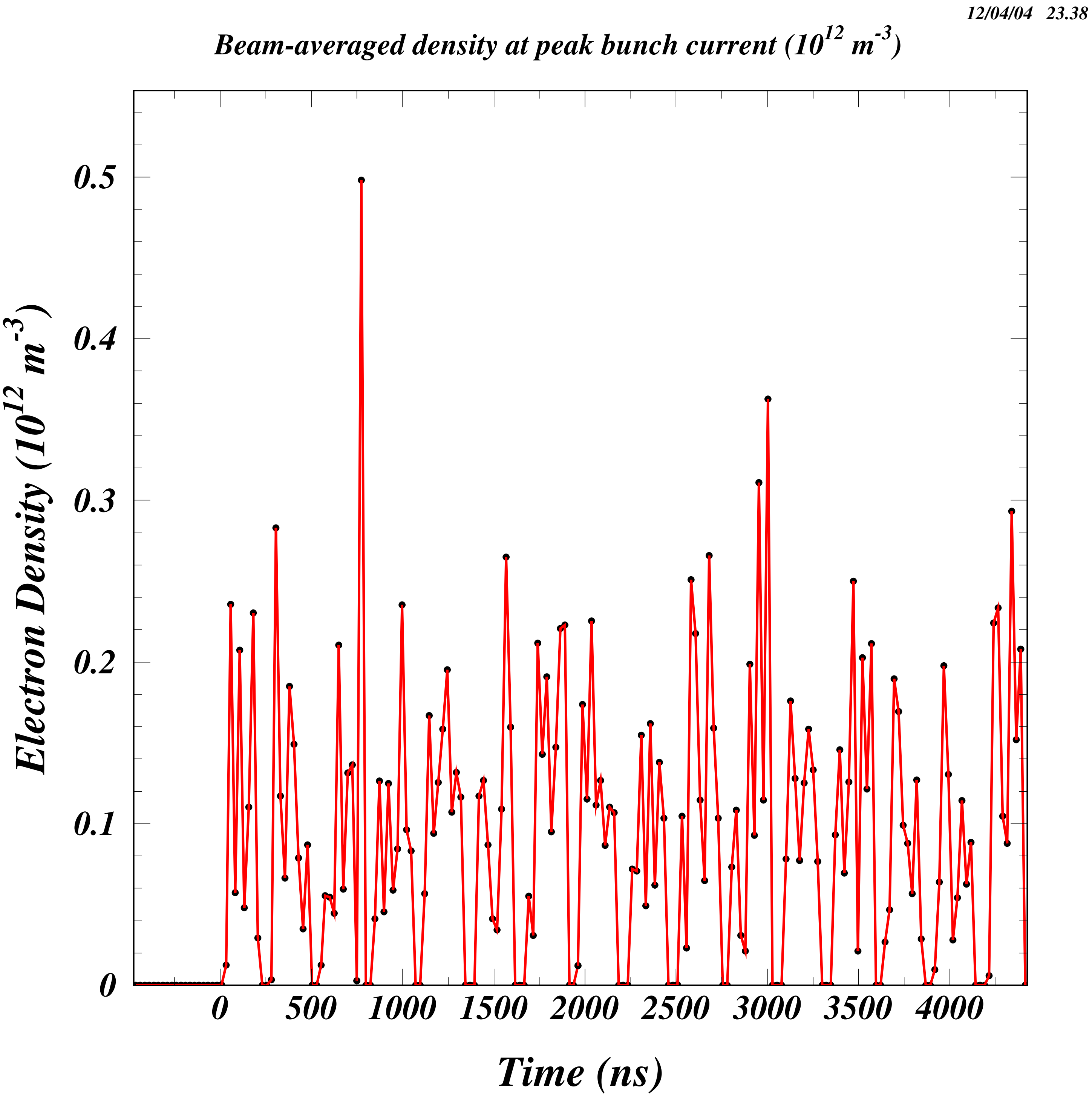

12/04/04 23.38
Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.1
0.08
0.06
0.04
0.02
0
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

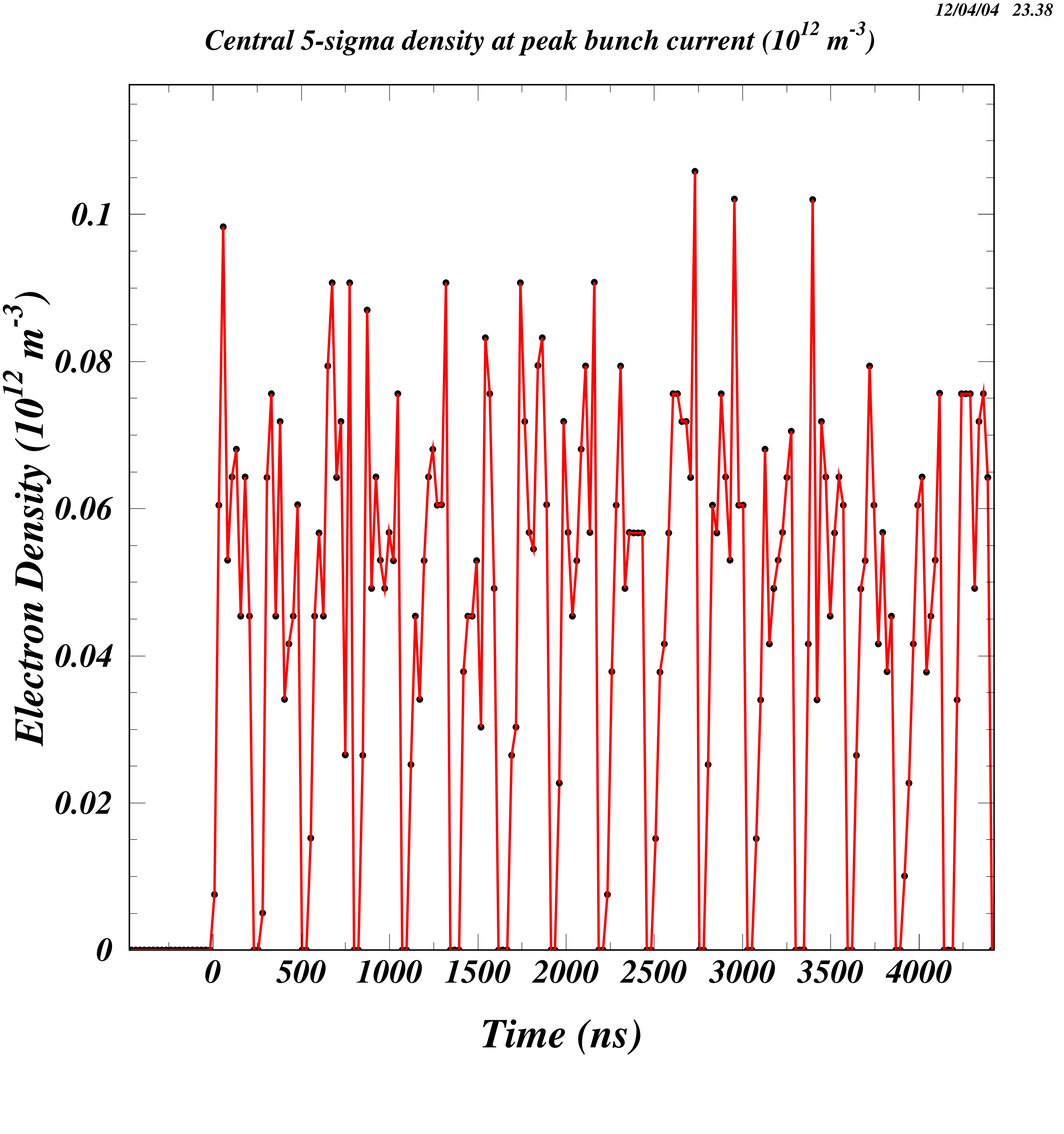

12/04/04 23.38
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.05
0.04
0.03
0.02
0.01
0
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)


12/04/04 23.38
Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

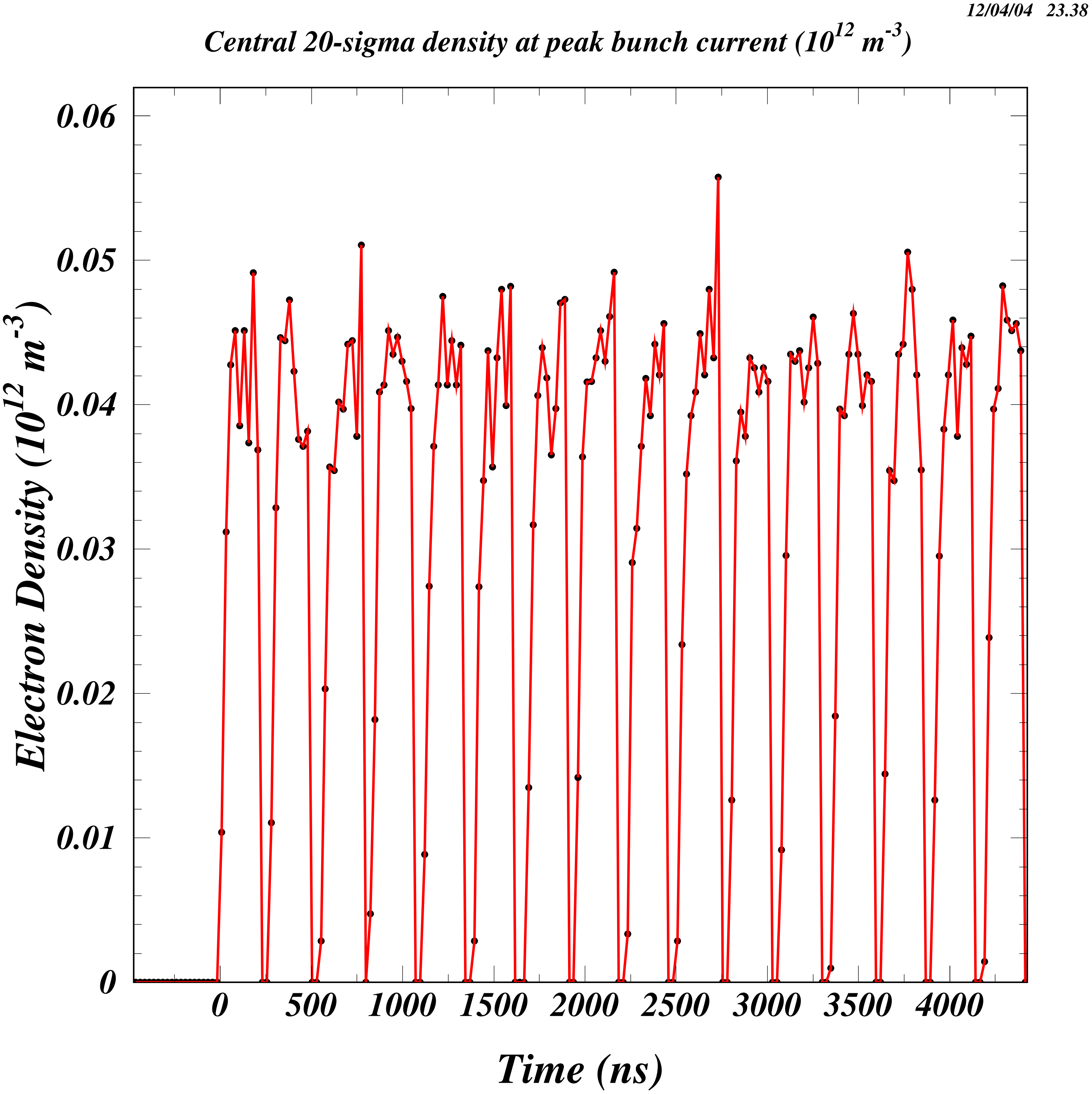


12/04/04 23.38
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.01
0.02
0.03
0.04
0.05
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

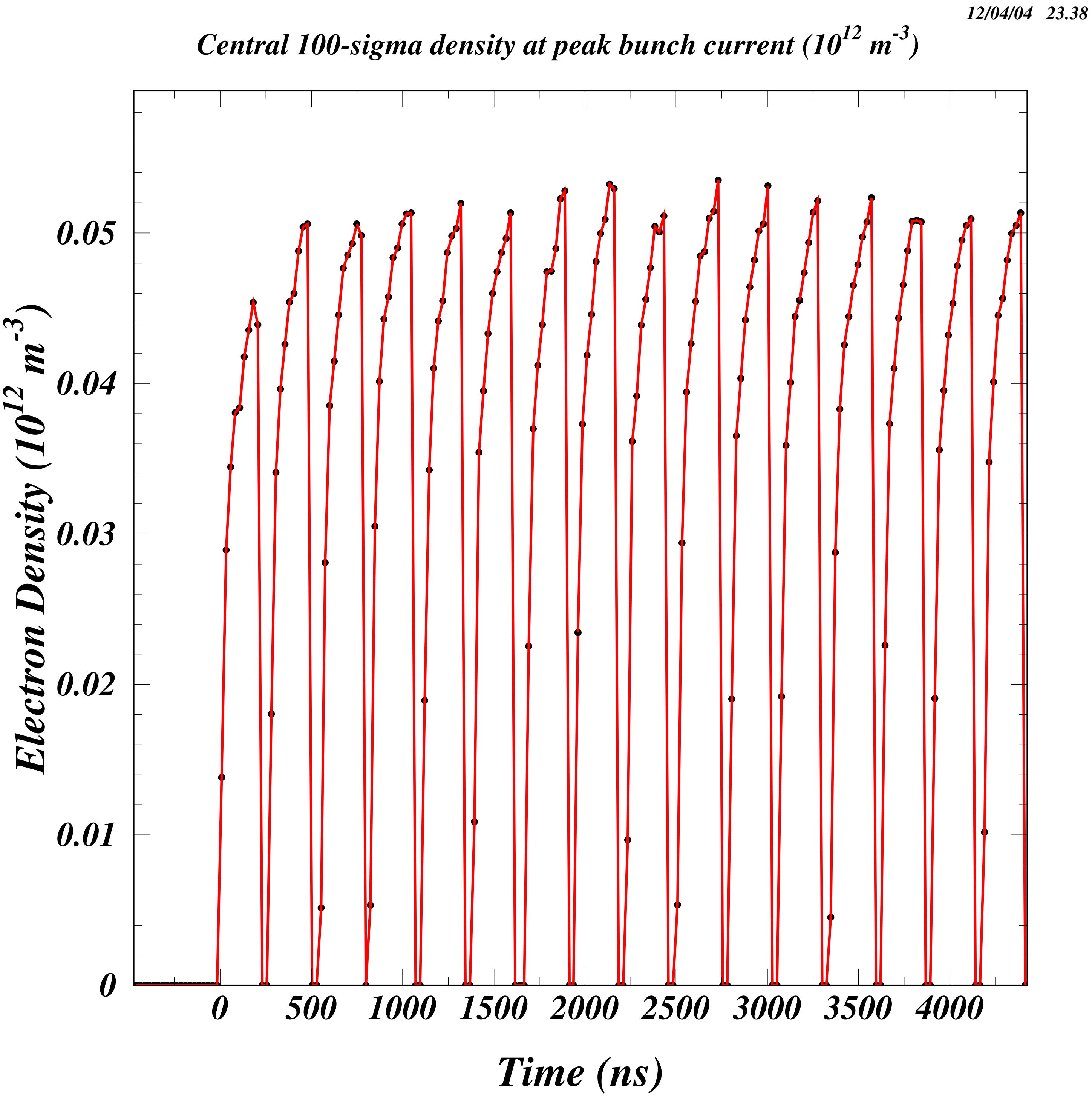

12/04/04 23.38
Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)



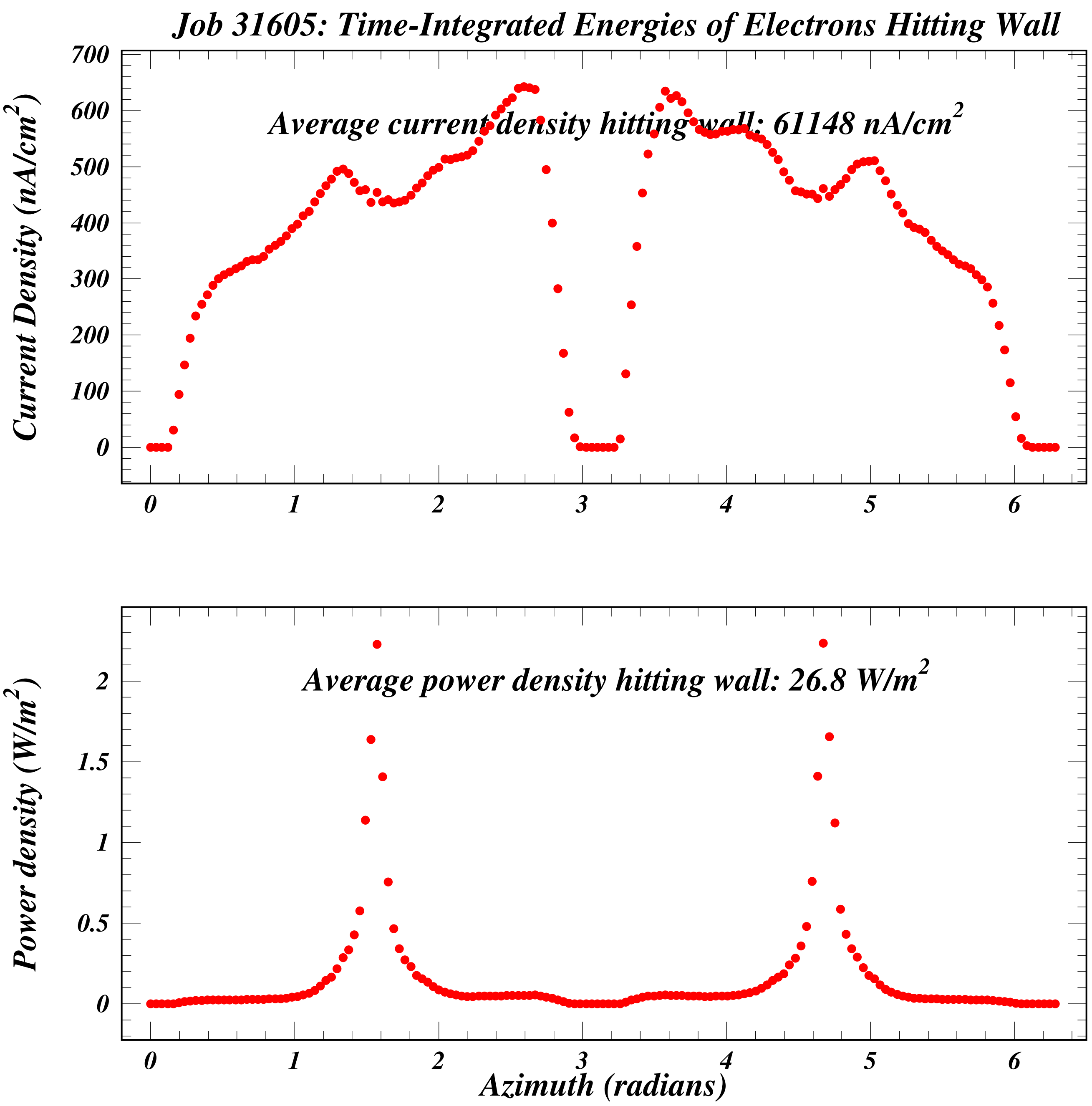
12/04/04 23.38
Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.1
0.08
0.06
0.04
0.02
0
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)



12/04/04 23.38
Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.01
0.02
0.03
0.04
0.05
0.06
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

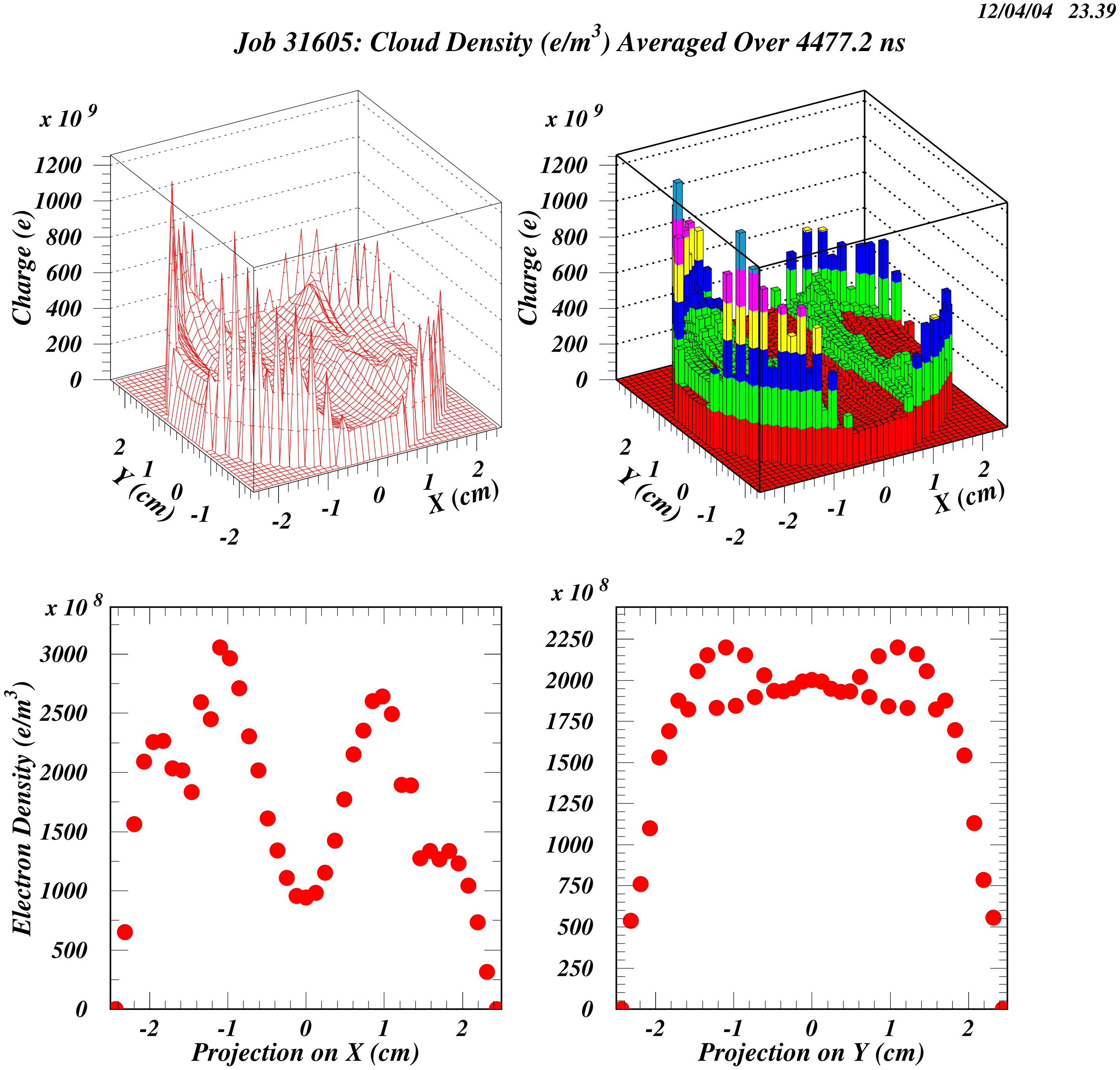

12/04/04 23.38
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.01
0.02
0.03
0.04
0.05
0
500
1000
1500
2000
2500
3000
3500
4000
Time (ns)

12/04/04 23.38

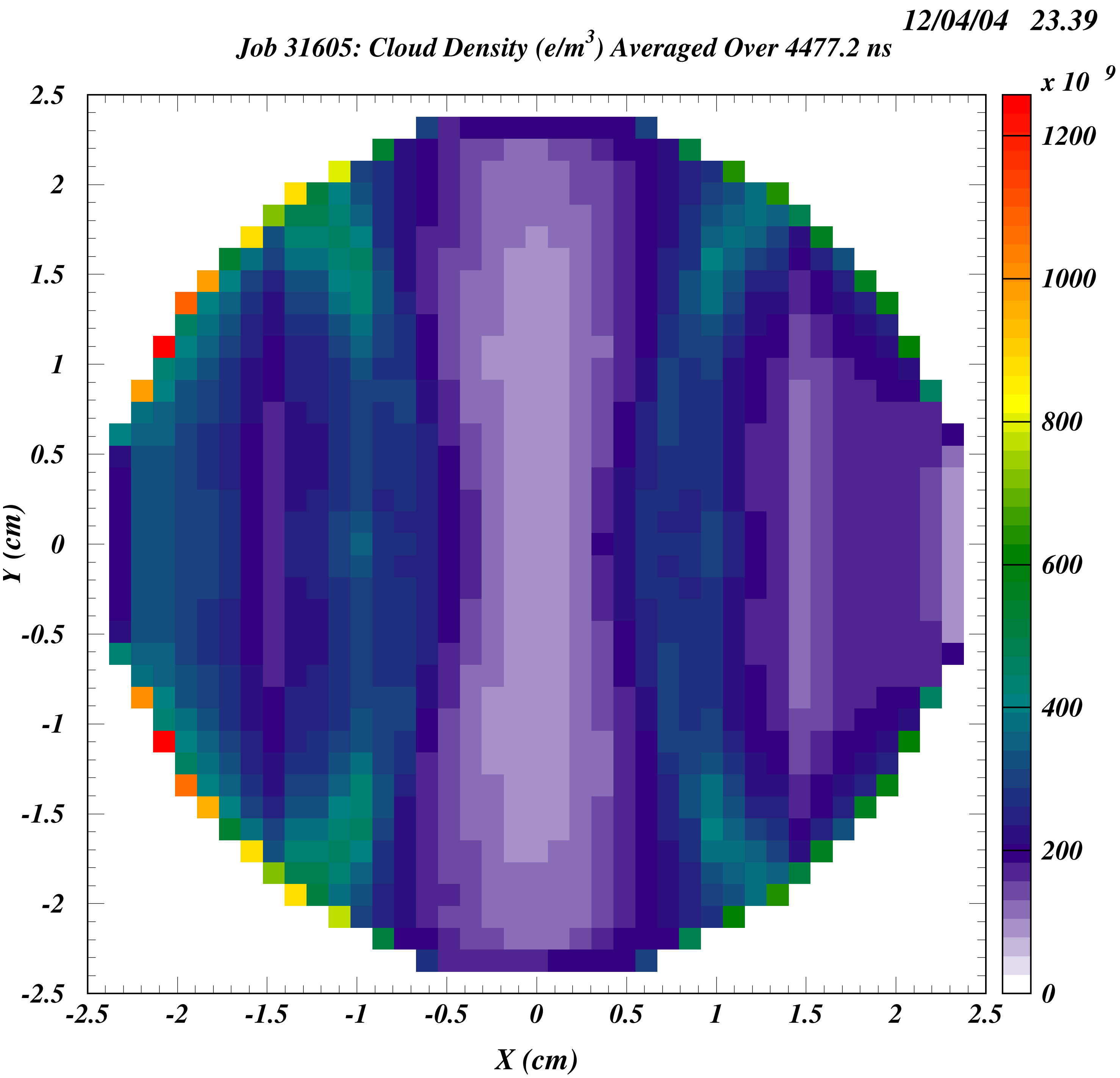


Job 31605: Time-Integrated Energies of Electrons Hitting Wall
Average current density hitting wall: 61148 nA/cm^2
Current Density (nA/cm^2)
0
100
200
300
400
500
600
700
0
1
2
3
4
5
6
Average power density hitting wall: 26.8 W/m^2
Power density (W/m^2)
0
0.5
1
1.5
2
Azimuth (radians)

12/04/04 23.39



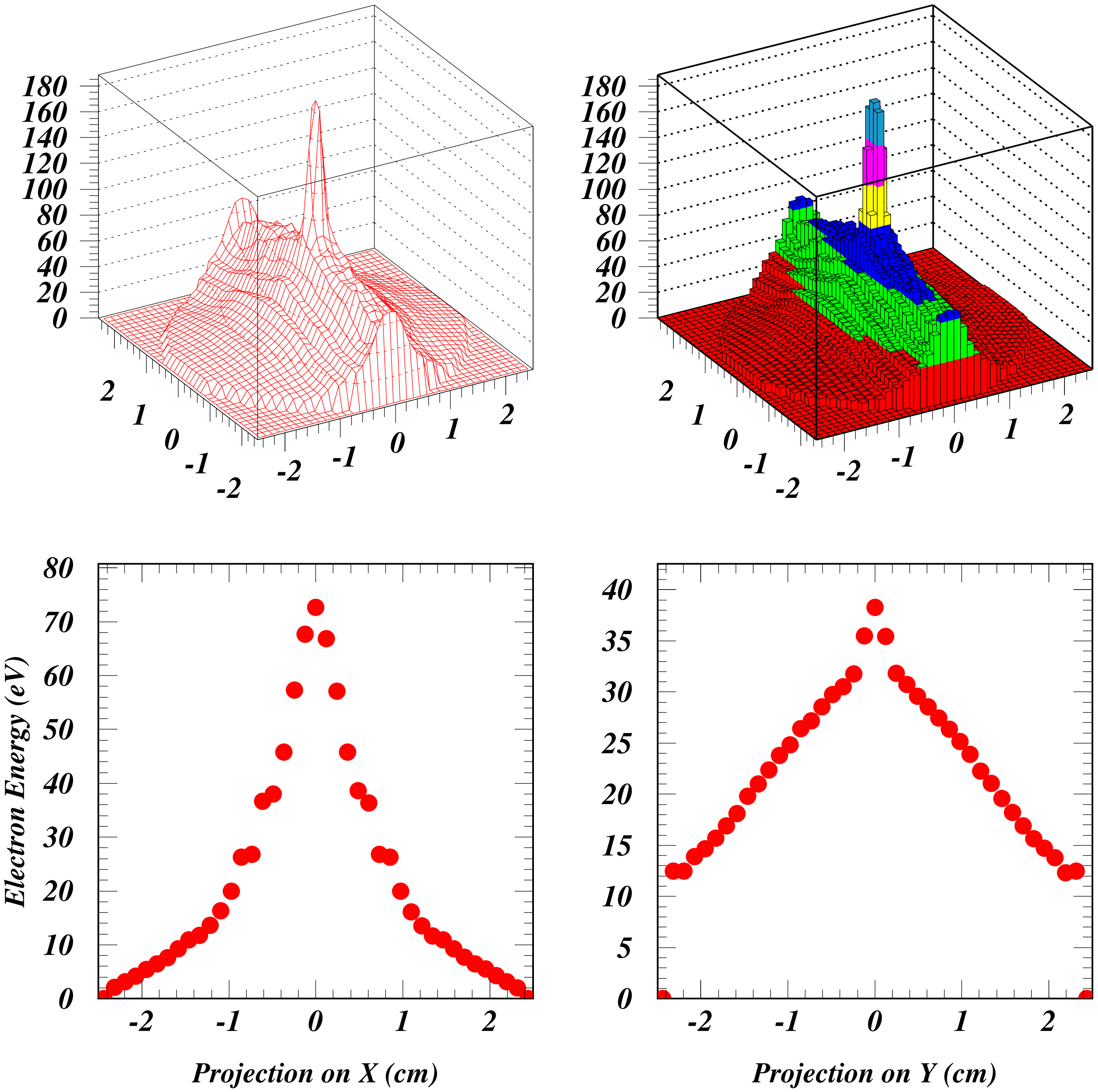
Job 31605: Cloud Density (e/m^3) Averaged Over 4477.2 ns
x 10^9
Charge (e)
Y (cm)
X (cm)
x 10^9
Charge (e)
Y (cm)
X (cm)
x 10^8
Electron Density (e/m^3)
Projection on X (cm)
x 10^8
Projection on Y (cm)

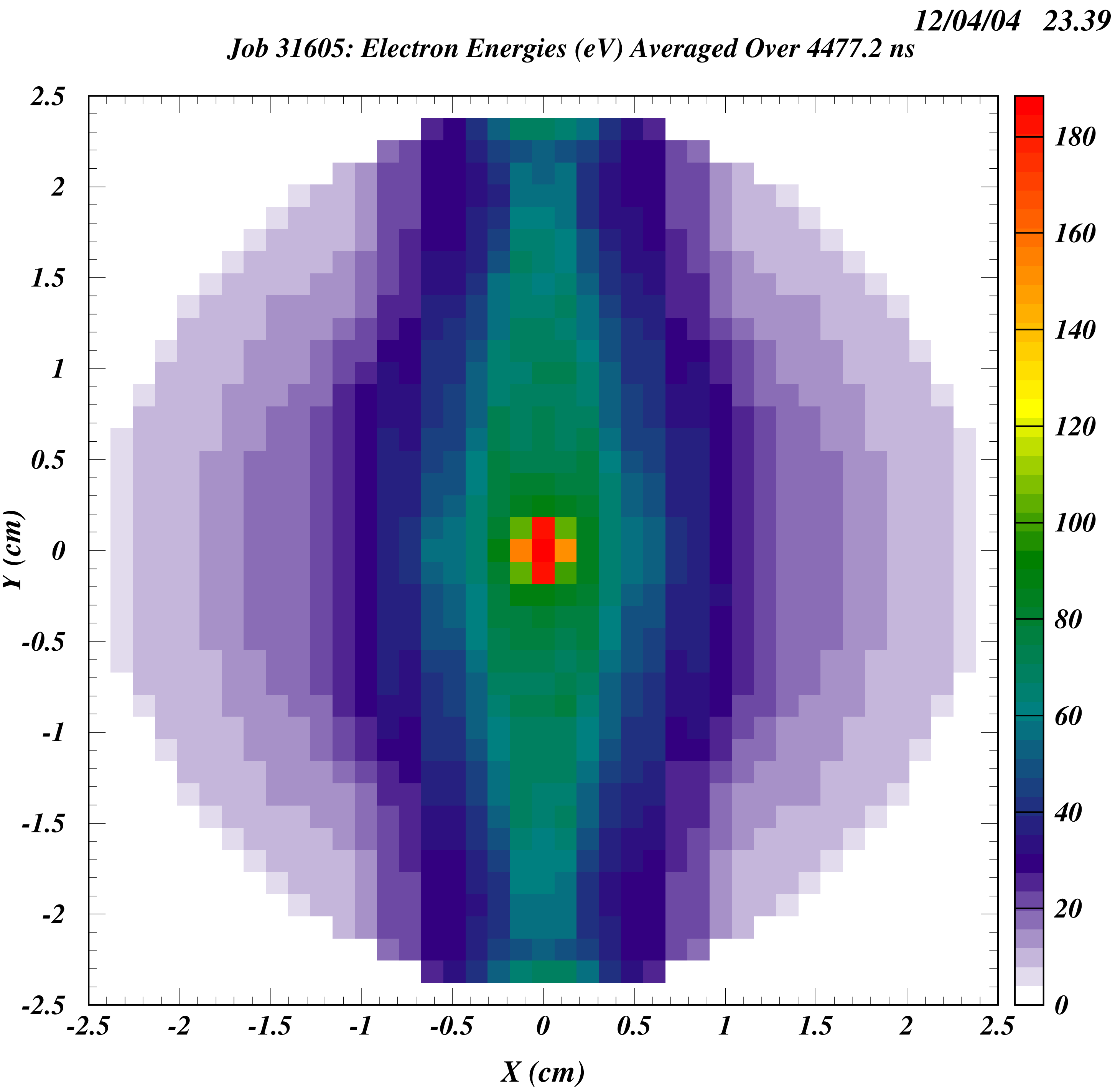


12/04/04 23.39
Job 31605: Cloud Density (e/m³) Averaged Over 4477.2 ns
x 10 9
1200
1000
800
600
400
200
0
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
Y (cm)
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
X (cm)

12/04/04 23.39

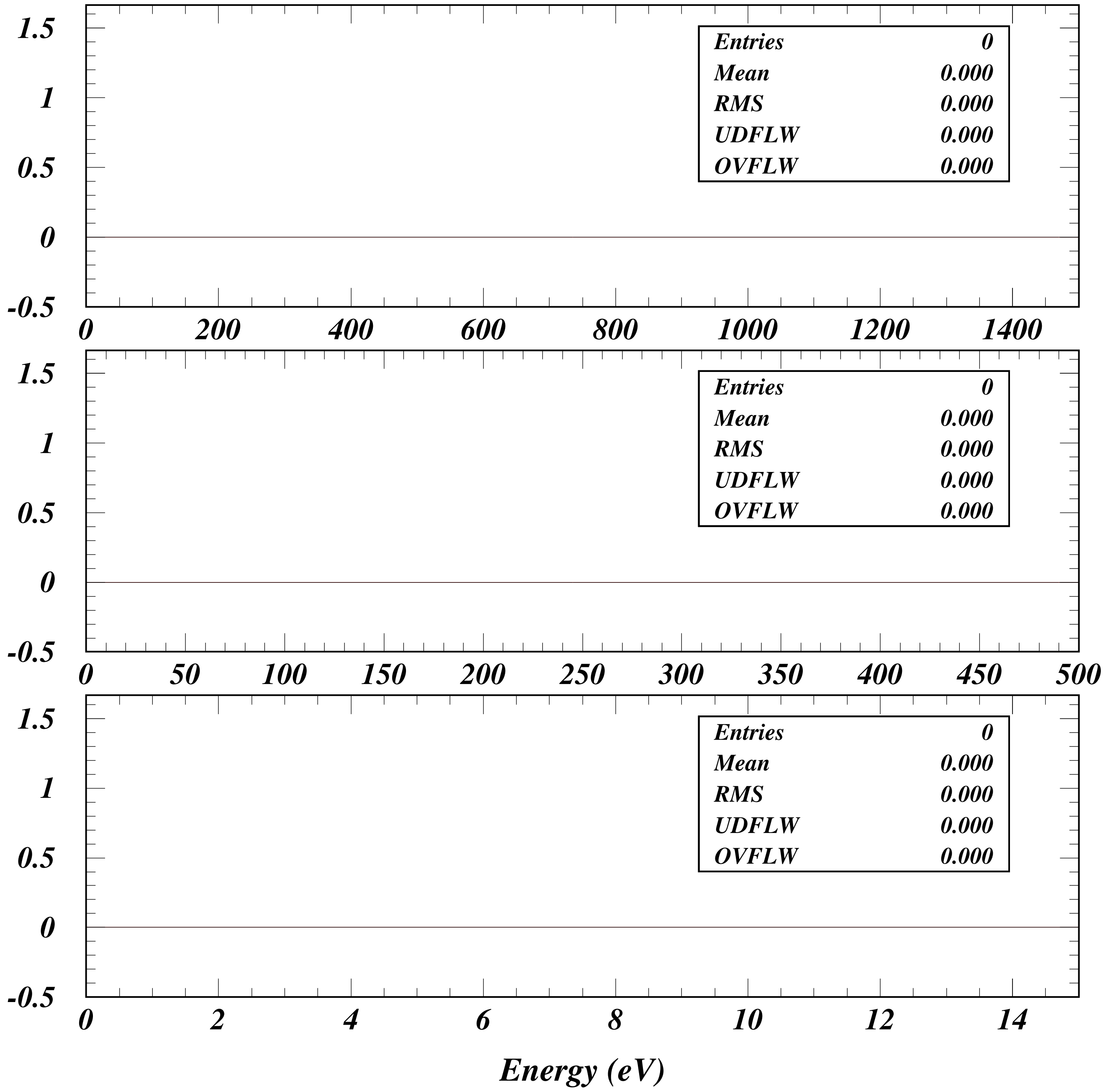
Job 31605: Electron Energies (eV) Averaged Over 4477.2 ns

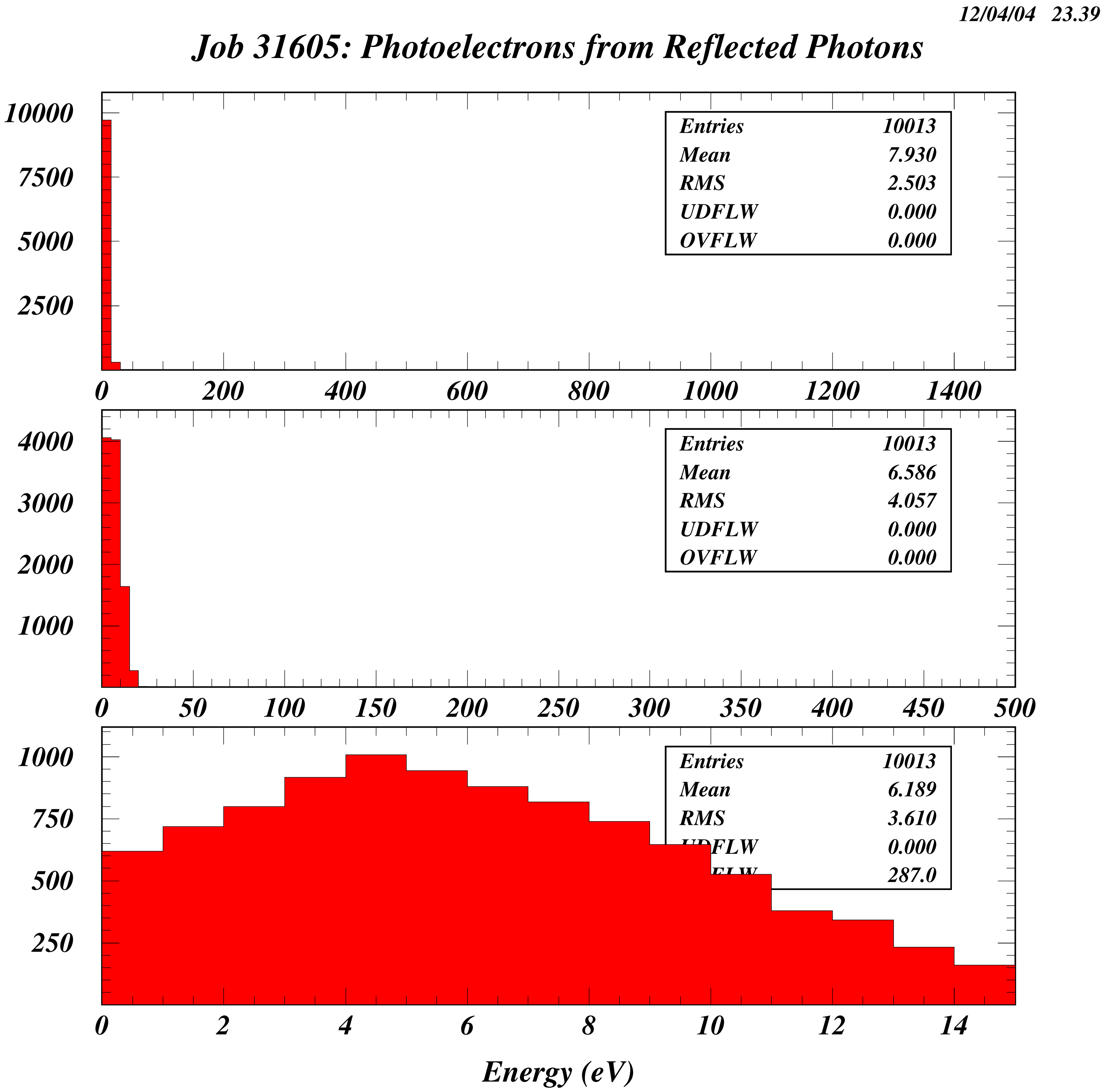


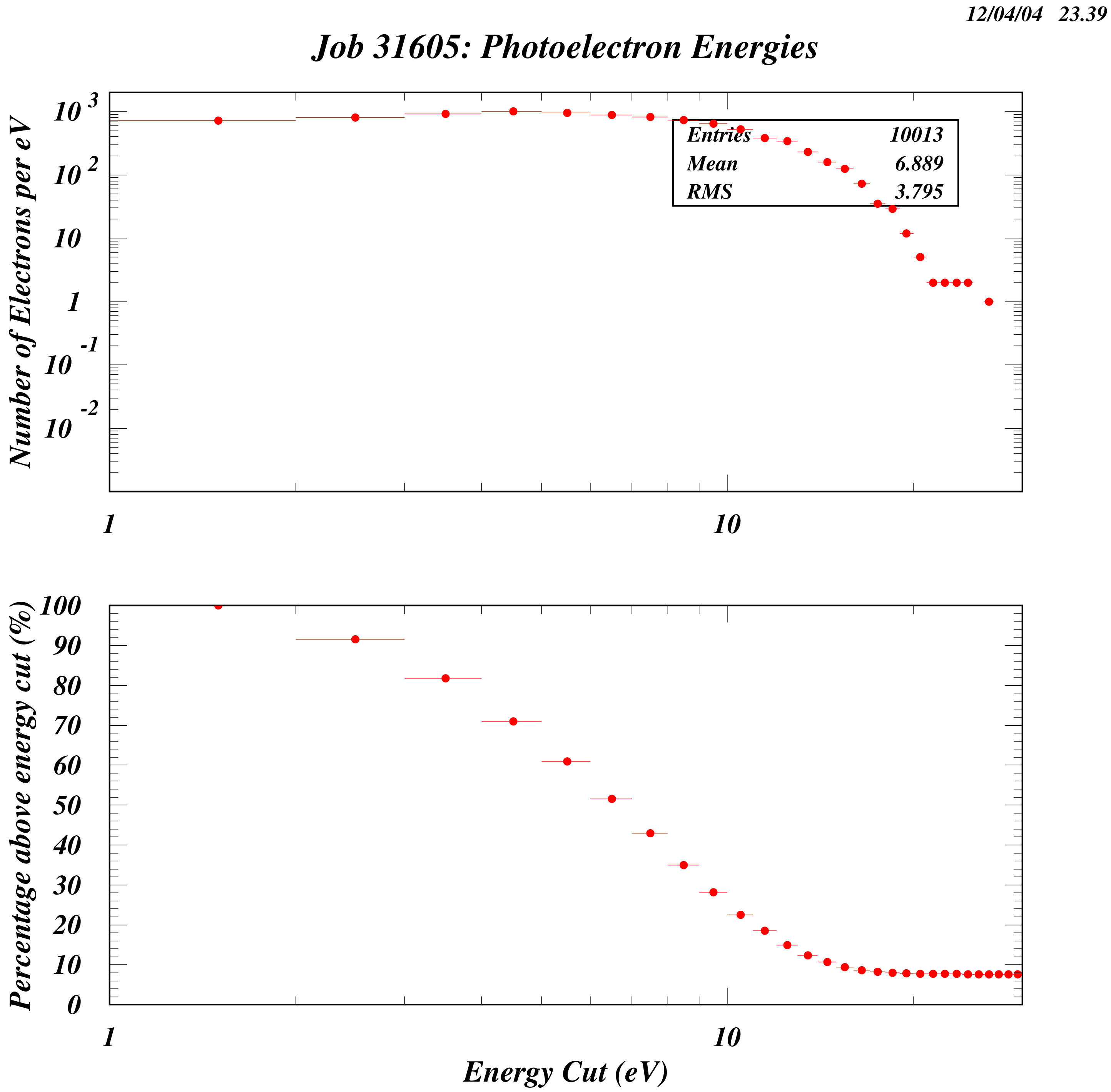

12/04/04 23.39
Job 31605: Electron Energies (eV) Averaged Over 4477.2 ns
Y (cm)
X (cm)
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
180
160
140
120
100
80
60
40
20
0

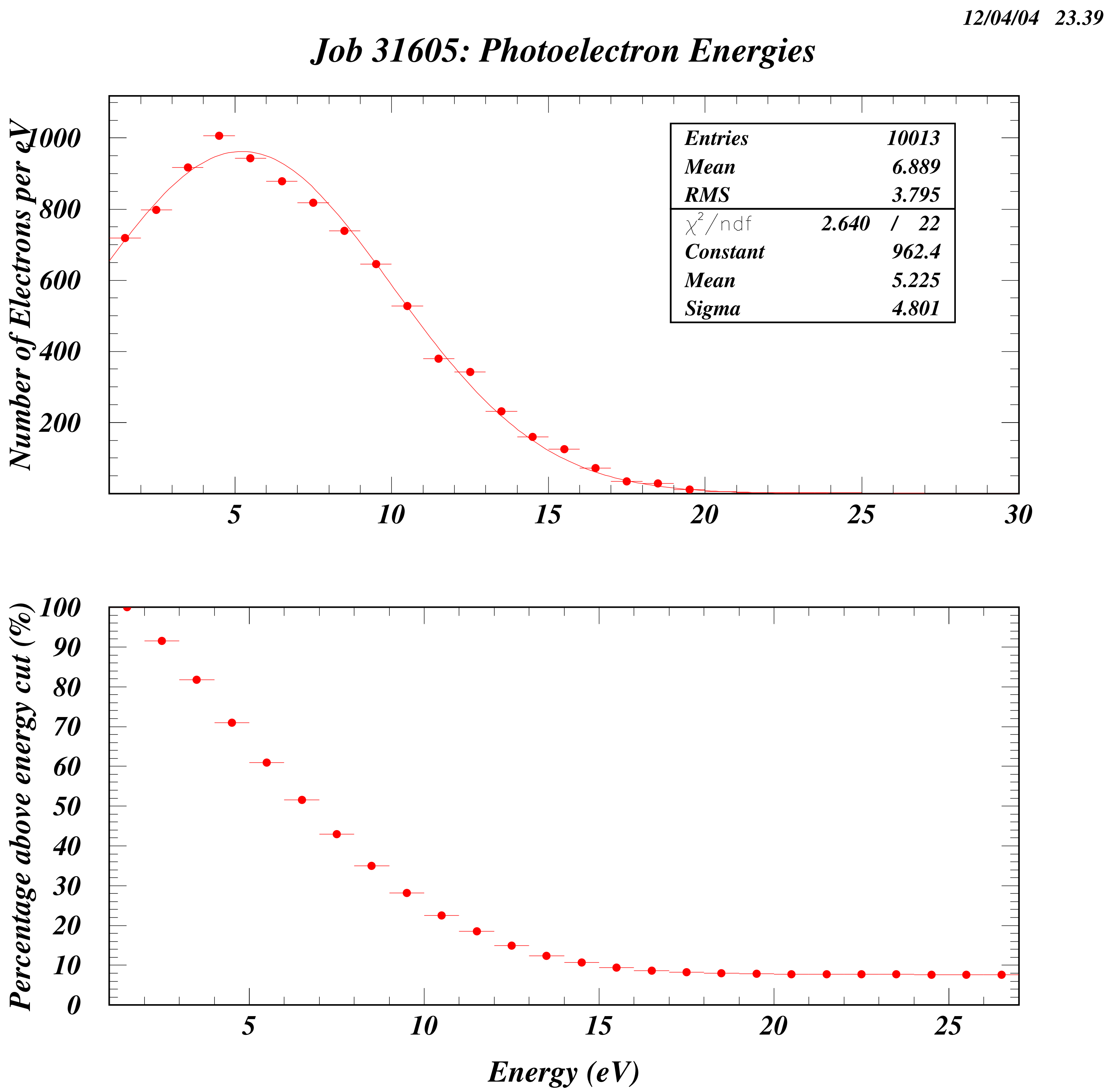
12/04/04 23.39

Job 31605: Photoelectrons from Direct Photons



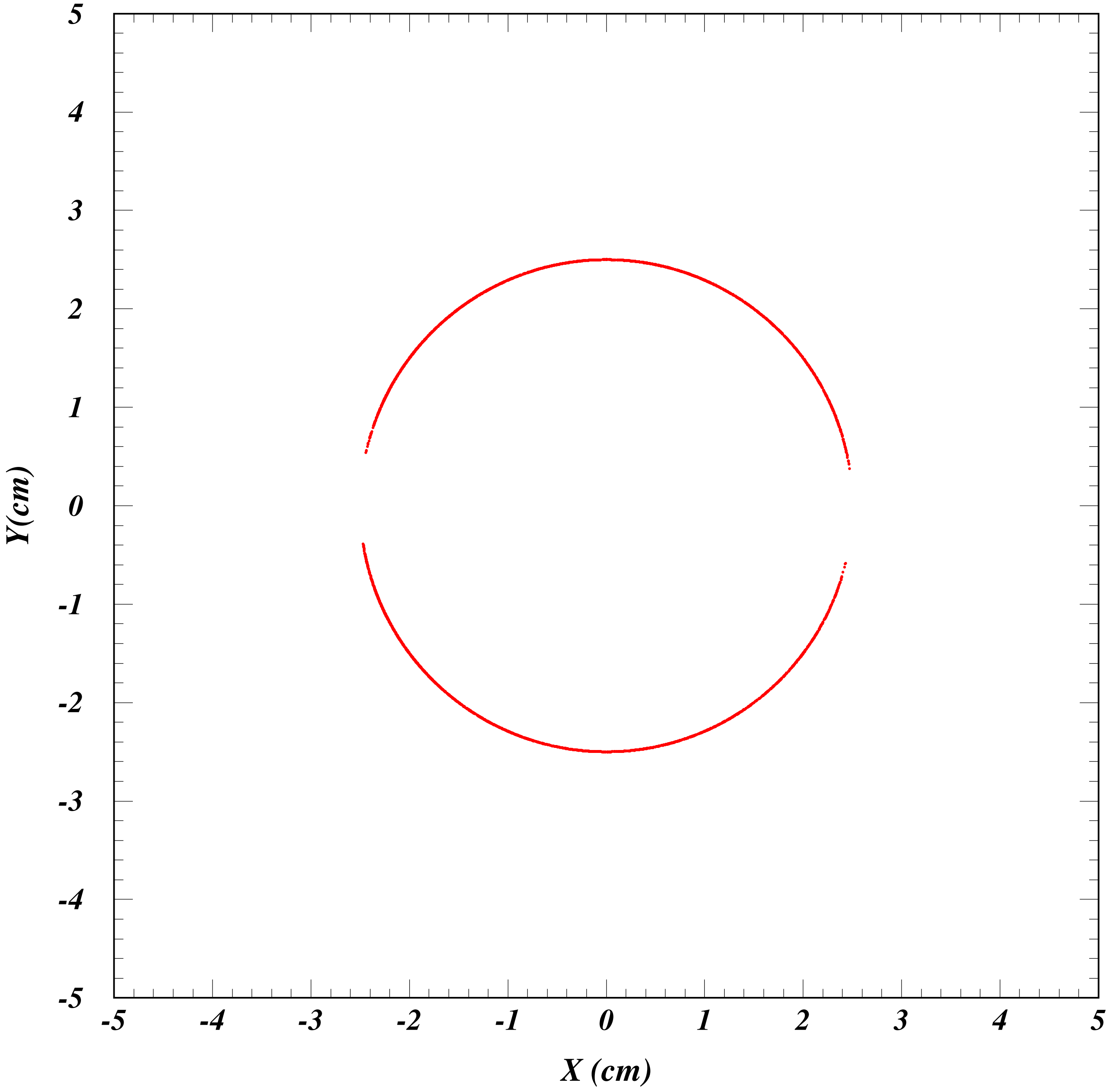

12/04/04 23.39
Job 31605: Photoelectrons from Reflected Photons
Entries 10013
Mean 7.930
RMS 2.503
UDFLW 0.000
OVFLW 0.000
10000
7500
5000
2500
0
200
400
600
800
1000
1200
1400
Entries 10013
Mean 6.586
RMS 4.057
UDFLW 0.000
OVFLW 0.000
4000
3000
2000
1000
0
50
100
150
200
250
300
350
400
450
500
Entries 10013
Mean 6.189
RMS 3.610
0.000
287.0
1000
750
500
250
0
2
4
6
8
10
12
14
Energy (eV)


12/04/04 23.39
Job 31605: Photoelectron Energies
Number of Electrons per eV
Entries 10013
Mean 6.889
RMS 3.795
Percentage above energy cut (%)
Energy Cut (eV)


12/04/04 23.39
Job 31605: Photoelectron Energies
Entries 10013
Mean 6.889
RMS 3.795
χ²/ndf 2.640 / 22
Constant 962.4
Mean 5.225
Sigma 4.801
Number of Electrons per eV
Percentage above energy cut (%)
Energy (eV)

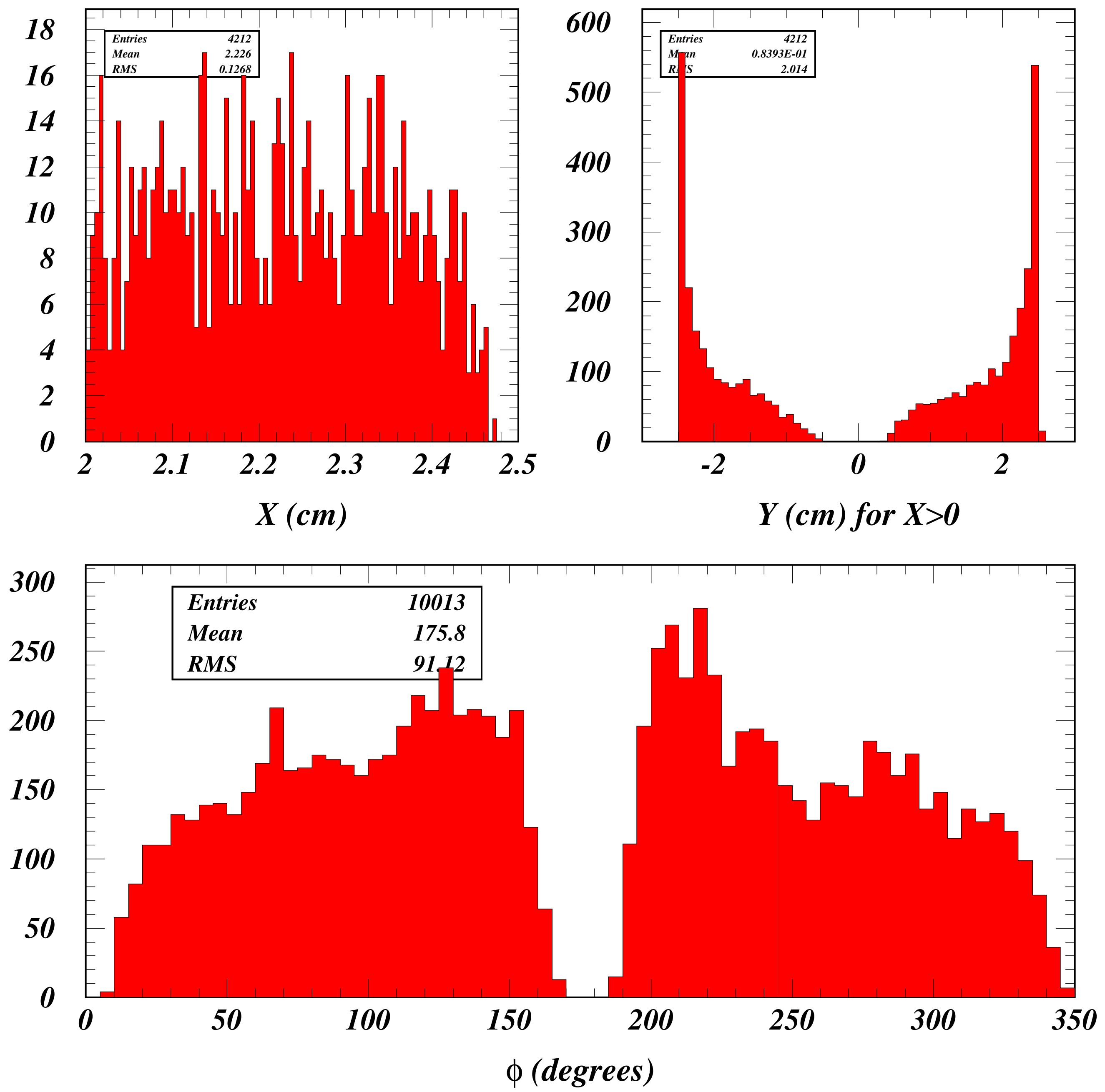
12/04/04 23.39

Job ιοβ: Photoelectron Production Distributions



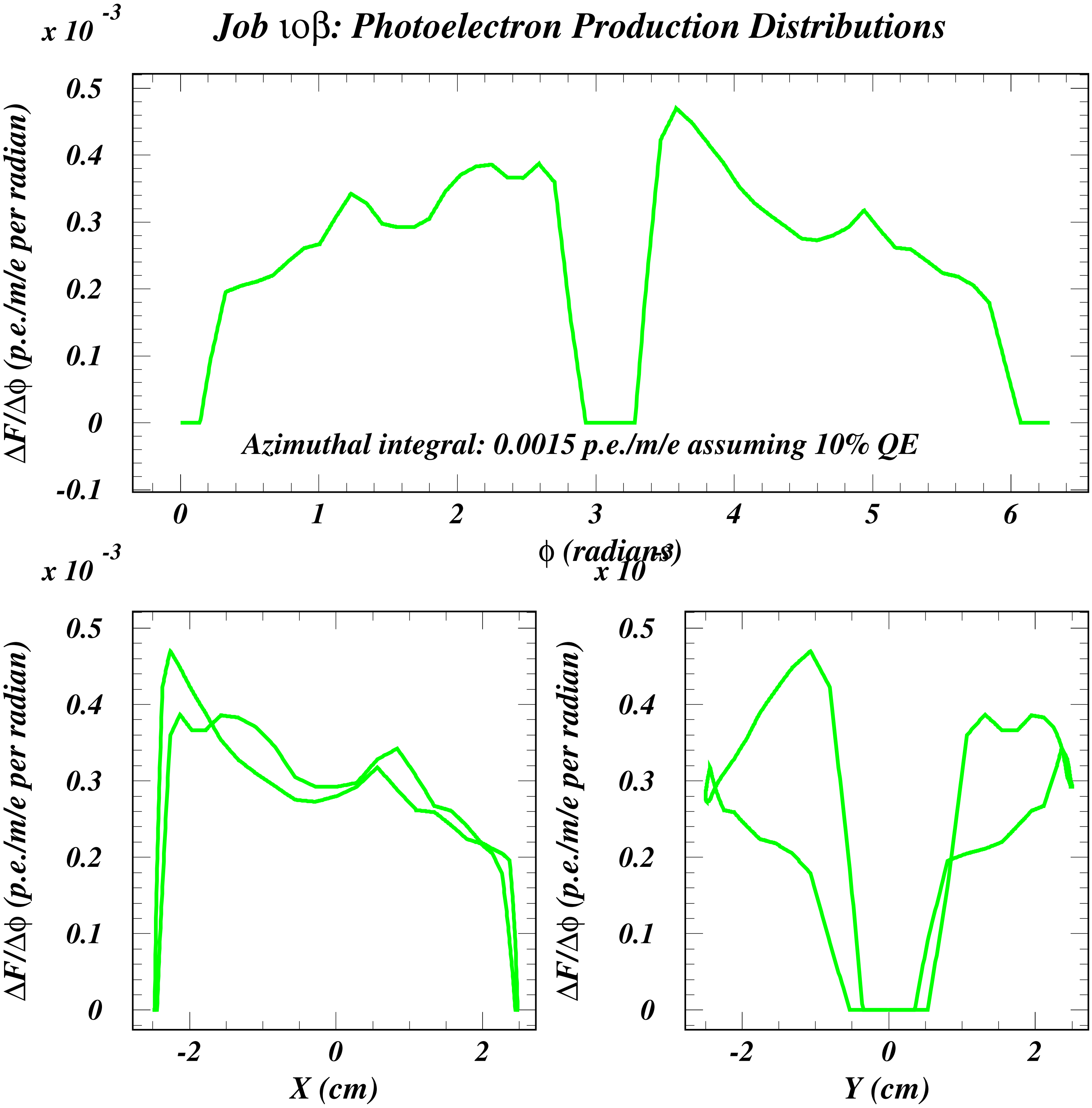
12/04/04 23.39

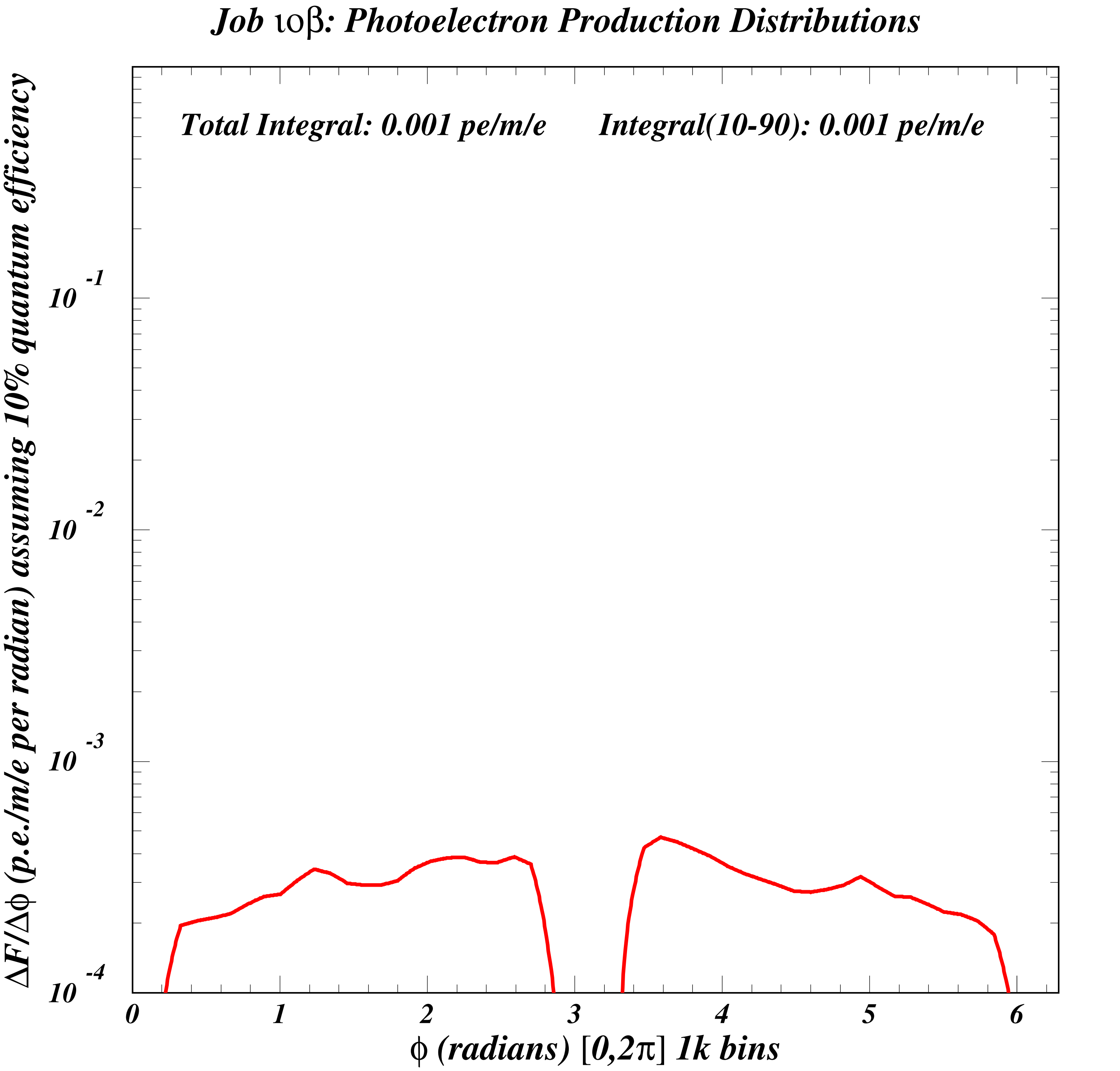
Job ιοβ: Photoelectron Production Distributions



12/04/04   23.39

Job ιοβ: Photoelectron Production Distributions




Job ιοβ: Photoelectron Production Distributions
Total Integral: 0.001 pe/m/e
Integral(10-90): 0.001 pe/m/e
ΔF/Δφ (p.e./m/e per radian) assuming 10% quantum efficiency
10^-1
10^-2
10^-3
10^-4
0
1
2
3
4
5
6
φ (radians) [0,2π] 1k bins